

# MARINE CORPS WARFIGHTING LABORATORY

The **Forward Resuscitative Surgical System (FRSS)** is a mobile medical shelter with a surgical suite intended to maneuver and set up in close proximity to combat units. The goal of FRSS is to provide surgery to combat casualties within the “golden hour,” or within one hour from the time a wound is sustained.

**Background:** Most combat fatalities occur from massive shock and bleeding, which may be controlled if medical attention is obtained within the first hour. FRSS is designed to move as far forward on the battlefield as possible to greatly reduce the time needed to bring a combat casualty to an operating room.

**Description:** The FRSS is transportable by one 5-ton truck, two humvees or one MV-22 tiltrotor aircraft, and can be set up in one hour. The two shelters, which are ventilated and wired for electricity, provide space for one operating room and one pre- and post-operative care room. During high-intensity operations when time is critical, both the operating suite and treatment rooms may be placed in one shelter until the entire FRSS can be erected. The shelter is equipped with state-of-the-art surgical equipment and its own oxygen generator, precluding the need for volatile oxygen bottles.

**Deliverable Products:** The Lab will deliver to Marine Forces Atlantic the tactics, techniques and procedures for FRSS. Following Milestone C approval, a necessary step in procuring and fielding

## FORWARD RESUSCITATIVE SURGICAL SYSTEM

### *fact sheet*



equipment, Marine Corps Systems Command will deliver two FRSS units to the Fleet Marine Forces in FY 02 followed by delivery of 13 units in FY 03. The total cost is \$330,000 per unit.

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3255 MEYERS AVENUE  
QUANTICO, VA 22134  
[WWW.MCWL.QUANTICO.USMC.MIL](http://WWW.MCWL.QUANTICO.USMC.MIL)